

OHM-ONS

LOW VOLTAGE SWITCHGEAR COMBINATION ONS 5.1

SYSTEM DESCRIPTION

The low-voltage switchgear combination ONS 5.1 offers a modern and future-proof solution for various applications thanks to its extensive expansion options, fixed-mounted or withdrawable technology, and full withdrawable units.

The modular system design allows for a wide range of combinations tailored to project-specific requirements.

The switchgear panels can be configured with internal partitions from Form 1 to Form 4b.

Withdrawable units can be realized in both plug-in and switched versions.

APPLICATION AREAS

- ✓ Energy providers & infrastructure
- ✓ Data centers
- ✓ Medical facilities & sectors
- ✓ Oil & gas
- ✓ Industry
- ✓ Defense and disaster protection

SYSTEM FEATURES

- ✓ Design-tested according to IEC 61439-1/-2 and EN 61439-1/-2
- ✓ Arc fault-resistant design according to IEC/TR 61641 possible
- ✓ High operational safety, personnel safety and availability
- ✓ Compact and space-saving design
- ✓ Flexible expansion – no restriction to specific switchgear devices
- ✓ Customer-specific solutions can be implemented quickly



TECHNICAL DATA

GENERAL DATA

⊕ Rated impulse withstand voltage	8 kV
⊕ Overvoltage category	III
⊕ Pollution degree	3
⊕ Rated operational voltage U_e	AC 690V / DC 750V
⊕ Rated insulation voltage U_i	1000 V
⊕ Rated frequency	50/60 Hz
⊕ Degree of protection according to IEC 60529	IP30 (up to IP42 possible)
⊕ Protection class	I (earthed)
⊕ Internal partitioning	Form 1 to Form 4 b
⊕ Surface protection	Frame: Alu-zinc coated Panels/doors: Steel sheet, powder-coated

BUSBARS

⊕ Rated current I_e	up to 6300A
⊕ Rated peak withstand current I_{pk}	up to 330 kA
⊕ Rated short-time withstand current	up to 150 kA

FIELD DISTRIBUTION BARS

⊕ Rated current I_e	up to 1900A
⊕ Rated peak withstand current I_{pk}	up to 220 kA
⊕ Rated short-time withstand current	up to 100 kA

DIMENSIONS / TRANSPORT UNITS

⊕ Height (mm)	Standard: 2200 (other heights on request)
⊕ Width (mm)	400, 600, 800, 1000, 1200
⊕ Depth (mm)	400, 600, 800, 1000, 1200
⊕ Grid spacing	E=25mm according to DIN 43600
⊕ Delivery	Panels supplied in individual transport units

ARC FAULT RESISTANCE - OPTIONAL

⊕ Arc fault protection	up to 100 kA at 400 V AC 50 Hz, 300 ms depending on arc fault level
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